



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,090	06/25/2003	Atsushi Mukoyama	NECU 20.463	5422
26304	7590	08/30/2005	EXAMINER	
KATTEN MUCHIN ROSENMAN LLP			A, MINH D	
575 MADISON AVENUE			ART UNIT	
NEW YORK, NY 10022-2585			PAPER NUMBER	
			2821	

DATE MAILED: 08/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/607,090

Applicant(s)

MUKOYAMA, ATSUSHI

Examiner

Minh D. A

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-11, 13-16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Annamaa (US 6,016,130).

Regarding claim 1, Annamaa discloses (Currently Amended) An antenna unit, comprising: slue at least two elements (2a and 2b), each of said at least two elements having a coil shape, each coil shape having a diameter different than the other coil shapes; and a case(1 and 4) for covering said elements having the coil shape, wherein: said case has one or plural opening parts within the range keeping the durability of the body of said case. See figures 2a-5, col.4, lines 3-67 to col. 5, lines 1-67.

Regarding claim 2, Annamaa discloses at least one of said plural opening parts is formed in said case at the position near the part where a current flowing in said at least two elements is large. See figures 2a-5.

Regarding claim 3, Annamaa discloses the at least two elements are connected in parallel, and at least one of said opening parts is formed at the position near the part where said at least two elements are joined. See figures 2a-5.

Regarding claim 4, Annamaa discloses at least one of said opening parts is formed at the position near the part where a power supply point to said at least two elements is formed. See figures 2a-5.

Regarding claim 5, Annamaa discloses a door is formed at the position of each of said plural opening parts, and said door is opened when it is required. See figures 2a-5.

Regarding claim 7, Annamaa discloses a radio communication terminal, comprising: an antenna unit, wherein: said antenna unit, comprises: at least two elements, each of said at least two elements having a coil shape, each coil shape having a different diameter than the other coil shapes; and a case for covering said elements having the coil shape, wherein: said case has one or plural opening parts within the range keeping the durability of the body of said case. See figures 2a-5, col.4, lines 3-67 to col. 5, lines 1-67.

Regarding claim 8, Annamaa discloses at least one of said plural opening parts is formed in said case at the position near the part where a current flowing in said at least two elements is large. See figures 2a-5.

Regarding claim 9, Annamaa discloses the at least two elements are connected in parallel, and at least one of said opening parts is formed at the position near the part where said at least two elements are joined. See figures 2a-3, col.4, lines 3-67 to col. 5, lines 1-67.

Regarding claim 10, Annamaa discloses at least one of said opening parts is formed at the position near the part where a power supply point to said at least two elements is formed. See figures 2a.

Regarding claim 11, Annamaa discloses a door is formed at the position of each of said plural opening parts, and said door is opened when it is required. See figures 20a-5.

Regarding claim 13, Annamaa discloses at least two antenna means, wherein each of the at least two antenna means comprises a coil shape, and wherein each coil shape comprises a diameter different than the other coil shapes; and means for enclosing the at least two antenna means, wherein the enclosing means comprises one or more opening means within the range keeping a durability of a body of the enclosing means. See figures 2a-5, col.4, lines 3-67 to col. 5, lines 1-67.

Regarding claim 14, Annamaa discloses at least one of the opening means is formed in the enclosing means at a position near where a current flowing in the at least two antenna means is large. See figures 2a-5.

Regarding claim 15, Annamaa discloses at least two antenna means are connected in parallel, and wherein at least one of the opening means is formed at a position near where the at least two antenna means are joined. See figures 2a-5.

Regarding claim 15, Annamaa discloses at least one of the opening means is formed at a position near where a power supply point to the at least two antenna means is formed. See figures 2a-5.

Regarding claim 16, Annamaa discloses a door means is formed at a position of each of the opening means, and wherein the door means is opened when it is required. See figures 2a-5.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Annamaa (US 6,016,130) in view of Makino (US 6,734,831).

Regarding claims 6, 12 and 17, Annamaa discloses a case for covering the coils. However, Annamaa does not disclose case is comprised of a resin.

Makinno discloses a case is comprised of a resin. See figure 2, col.4, lines 3-18.

It would have been an obvious to one of obvisous skill in the art employ case made of a resin as suggest by Makinno in the antenna of Annamaa to cover the coils, because it can improve the cover of all frequency band in one cellular system.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yamazaki et al (US 6,747,638) and Anza. (US 6,798,405) are cited to show a thin film transistor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Minh A whose telephone number is (571) 2721817. The examiner can normally be reached on M-F (5:30 -2:30 PM). If attempts to reach the examiner by telephone is unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone numbers for the organization

Art Unit: 2821

where this application or proceeding is assigned are 703-872-9306 for regular communications and (703) 872-9319 for final communications.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (571) 272-1553.

Examine: Minh A

Art unit 2821

8/5/05



WILSON LEE
PRIMARY EXAMINER